

Recommended Cost Management Activities Summary Sheet
 [Related to 120-Day Study Recommendation or Not]

Activity Number and Title	Lead	Status	Summary of Actions
1.1 EPA Oversight on Cleanups Conducted by PRPs <i>[120-Day Study Recommendation #58 includes both completed and ongoing activities.]</i>	OSRE	Completed/ Ongoing	<i>Purpose</i> – To reduce EPA’s expenditure of oversight resources when remedial work is being performed by PRPs. <i>Progress</i> - Memo completed and sent to Regions on January 24, 2007. <i>Future</i> – HQ has begun performing a periodic analysis of regional oversight costs as a new activity. <i>Endpoint</i> – Develop a process to determine Superfund’s future oversight policy. No timetable to complete policy.
2.1 Federal Tax Exemption <i>[Not a 120-Day Study Recommendation.]</i>	OSRTI, RMD	Ongoing (2)	<i>Purpose</i> – To reduce EPA’s (and contractor’s) tax burden to states when conducting remedial and removal actions. <i>Progress</i> - Draft tax-exempt matrix chart is being developed by HQ and is currently under review. <i>Future</i> - Update and track chart information and draft letter to contractors stating EPA’s current policy. <i>Endpoint</i> – Document EPA’s (and its contractor’s) position regarding tax-exemption status for each state. No timetable to complete activities.

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2.2 Review Existing Accounts & Maximize Resource Use on Funding for LTRA <i>[120-Day Study Recommendations #21 & #22 completed in FY04.]</i>			<i>Purpose</i> – To maximize Superfund’s resources on funding remedial actions.
2.2 a. De-obligation of unexpended Regional resources	OSRTI, RMD	Completed/ Ongoing	<i>Progress</i> – De-obligation memo sent to Regions in April 2005 for FY05; in November 2005 for FY06; and in December 2006 for FY07. <i>Future</i> – Verifying values for FY07 De-obligation memo . <i>Endpoint</i> – Memo will be sent to Regions annually.
2.2 b. De-obligation of unexpended U.S. Army Corps of Engineers (USACE) Funds (through Inter-Agency Agreements (IAGs))	OSRTI, ARD	Completed/ Ongoing	<i>Progress</i> - De-obligation memo sent to USACE for 2005 and 2006. <i>Future</i> – Verify values for annual De-obligation memo . <i>Endpoint</i> – Memo will be sent to regions annually.
2.2 c. Review funds currently in Superfund State Contracts (SSCs) or unused State cost share accounts	OSRTI, RMD	Completed/ Ongoing	<i>Progress</i> – Work-planning memo , which includes review of SSC funds, was sent to Regions in May 2005 for FY06 and in June 2006 for FY07. <i>Future</i> - Develop E-facts for reporting SSCs. <i>Endpoint</i> – Work-planning memo, which includes review of SSC funds, will be sent to Regions annually.
2.2 d. Review how monies in special accounts (SAs) may be available for response action use	OSRTI, RMD	Completed/ Ongoing	<i>Progress</i> – Work-planning memo , which includes review of SA funds, was sent to Regions in May 2005 for FY06 and in June 2006 for FY07. <i>Future</i> - Develop E-facts for reporting SAs. <i>Endpoint</i> – Work-planning memo, which includes review of SA funds, will be sent to Regions annually.

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2.3 Integrate use of field sampling and analysis in site investigation and cleanup (Triad) <i>[Related to 120-Day Study Recommendation #30.]</i>			<i>Purpose</i> – To include Triad approach of dynamic work planning, confidence in project decisions, and use of real time data in site investigations, cleanups, long-term monitoring, legal defensibility, etc.
2.3 a. Dynamic Field Activities Guidance	OSRTI, TIFSD	Completed/ Ongoing	<i>Progress</i> - Guidance completed in May 2003. Policy memo completed on September 1, 2006. <i>Future</i> – Implement Triad Projects through Superfund Regional Triad Workgroup. <i>Endpoint</i> – Continue to promote Triad usage. No timetable to complete projects.
2.3 b. Triad website	OSRTI, TIFSD	Completed/ Ongoing	<i>Progress</i> - Web-site developed in June 2004. (see www.cometcentral.org) <i>Future</i> - Increase web-site usage and add new case studies to the web-site. <i>Endpoint</i> – Continuously maintain web-site. No timetable to complete web-site.
2.3 c. Training	OSRTI, TIFSD	Completed/ Ongoing	<i>Progress</i> - To date, over 74 training deliveries have been made to support Triad. <i>Future</i> - Plan to visit more Regions and national conferences to perform training. <i>Endpoint</i> – Continue to promote Triad usage. No timetable to complete training.

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2.3 d. Distribute case studies	OSRTI, TIFSD	Completed/ Ongoing	<p><i>Progress - Triad Resource Center (TRC) completed in June 2004; currently, there are 24 profiles in the TRC.</i></p> <p>When applied, Triad has generated cost savings in the range of 30-50% per site. (see www.triadcentral.org)</p> <p><i>Future - Add more sites to database. Six profiles currently under development.</i></p> <p><i>Endpoint – Perform more case studies and add information to TMC to document experiences and build knowledge base. No timetable to complete resource center.</i></p>
<p>3.1 Priority Site Remedy Review</p> <p><i>[120-Day Study Recommendation #41, which has been completed.]</i></p> <p>3.1 a. Pilot review process for Vineland Chemical site in NJ.</p> <p>3.1b. Pilot review process for Summitville Mine site in CO</p>	<p>OSRTI, ARD</p> <p>OSRTI, ARD</p>	<p>Completed (2)</p> <p>Completed (2)</p>	<p><i>Purpose – To perform in depth reviews at sites where remedies are selected and operational to determine the most cost-efficient cleanup approach.</i></p> <p><i>Progress - Review completed in January 2005 and report completed in March 2005 (realized potential cost savings of at least \$75M for soil and ground water remedies) (see Attachment 2).</i></p> <p><i>Future – No further action planned for this pilot review.</i></p> <p><i>Progress - Review completed in September 2004; National Remedy Review Board review completed in July 2005; Draft study completed in August 2005; and final study completed in September 2005. No savings at this time.</i></p> <p><i>Future – No further action planned for this pilot review.</i></p>

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3.2 National Consistency <i>[Related to 120-Day Study Recommendations #41 and #42.]</i>			<i>Purpose</i> – To review remedies at similar type sites in order to improve remedy performance.
3.2 a. Residential Yard Cleanup	OSRTI, ARD	Completed	<i>Progress</i> – Internal Report completed in 2005 - several observations were made on the key drivers in cost variations. <i>Future</i> – There are no plans to expand this report. <i>Endpoint</i> – Work completed.
3.2 b. Sediment Cleanup	OSRTI, ARD	Completed	<i>Progress</i> – Guidance completed in December 2005, “Contaminated Sediment Remediation Guidance for Hazardous Waste Sites” (see www.epa.gov/superfund/resources/sediment/guidance.htm). <i>Future</i> – No plans to revise guidance. Additional training completed in 2006. <i>Endpoint</i> – Work completed.
3.2 c. Superfund Sediment Resource Center (SSRC)	OSRTI, ARD, TIFSD	Completed/ Ongoing	<i>Progress</i> - SSRC provided assistance for 16 sites in 2006. <i>Future</i> - Additional assistance expected. <i>Endpoint</i> – Continue to promote SSRC and provide assistance as needed. No timetable to complete site reviews.

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3.2 d. Mining Site Cleanup	OSRTI, ARD	Completed/ Ongoing	<p><i>Progress</i> – Final policy on joint repositories at mixed-ownership Hardrock Mining sites in 2005. Workshop on mine affected waters in 2005. Hardrock Mining Conference in 2006, and Biochemical Technologies Workshop in 2007.</p> <p><i>Current</i> – Mining Leapfrog Action on mine sites reuse in coordination with OBCR.</p> <p><i>Endpoint</i> – Develop a team of experts who would provide “one-stop-shop” support to sustain mining site redevelopment efforts. No timetable to complete actions.</p>
<p>3.3 Third Party Review of Fund Lead Remedial Design</p> <p><i>[120-Day Study Recommendation #39, which is completed for #3.3 c.]</i></p> <p>3.3 a Pilot study of Fruit Avenue Site, in Albuquerque, NM</p> <p>3.3 b Develop checklist during design</p>	<p>OSRTI, ARD</p> <p>OSRTI, ARD</p>	<p>Completed</p> <p>Completed/ Ongoing</p>	<p><i>Purpose</i> – To perform independent reviews of remedies during design using a newly-developed design checklist.</p> <p><i>Progress</i> - Internal review completed in 2004. Design review completed in 2005. Cost savings realized of approximately \$11M. (see Attachment #2)</p> <p><i>Future</i> – No further work is planned at this site.</p> <p><i>Endpoint</i> – Work completed.</p> <p><i>Progress</i> - Draft checklist completed in 2005 and final checklist completed in 2006.</p> <p><i>Future</i> – Perform independent review of designs as part of Value Engineering (VE) Study.</p> <p><i>Endpoint</i> – Final checklist as necessary to promote use during the remedial design phase. Checklist should be completed when VE Study is performed.</p>

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3.3 c. Reaffirm requirement for Value Engineering (VE) during Remedial Design (RD)	OSRTI, ARD	Completed/ Ongoing	<i>Progress</i> – Memo issued April 14, 2006, requiring VE to be performed prior to Remedial Action (RA) funding approval. <i>Future</i> – Monitor VE accomplishments. <i>Endpoint</i> – Continuous action to promote use of VE.
3.4 Electronic Data Management: Encourage all data to be transmitted and managed in a specified format electronically <i>[Related to 120-Day Study Recommendation #99]</i>			
3.4 a. Superfund Document Management System (SDMS – 2).	OSRTI, RMD	Completed/ Ongoing	<i>Progress</i> - SDMS workgroup has been developed; board control has changed; and the nationwide platform has been modified. Central repository components were put in place in January 2006.
3.4 a. Centralized Administrative Module	OSRTI, RMD	Ongoing	<i>Future</i> – Activity has begun; transfer to the Superfund Enterprise Management System (SEMS) in FY08/09.
3.4 a. National Point-of-Access	OSRTI, RMD	Ongoing	<i>Present</i> – Contact Steve Wyman or SDMS Reference Desk. <i>Future</i> – More activity planned for October 2008.
3.4 a. Public Web Access Module	OSRTI, RMD	Ongoing	<i>Endpoint</i> – Goal is for creation of a repository by the 4 th quarter of 2007. Integrate SDMS and CERCLIS by the end of 3 rd quarter of FY08.

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3.4 b. Data Management of Existing Superfund Systems <i>[120-Day Study Recommendation #99, which is completed.]</i>			<i>Purpose</i> – To establish inventory of Superfund Information Technology systems to create reference tool and avoid duplication of future systems or tools.
Questionnaire available to Regions	OSRTI, RMD	Completed	<i>Progress</i> – Questionnaire performed in March 2005.
Summary document	OSRTI, RMD	Completed	<i>Progress</i> – Document completed in May 2005.
Information entered into EPA READ database	OSRTI, RMD	Completed	<i>Progress</i> – Information entered in May 2005. <i>Future</i> – Create a ongoing method of informing the program when new systems are created. <i>Endpoint</i> – No timetable to create ongoing method.
3.4 c. Employ use of standard electronic tools for management of analytical data from laboratories. <i>[Related to 120-Day Study Recommendation #99.]</i>			<i>Purpose</i> – To incorporate Staged Electronic Data Deliverable (SEDD) for all Superfund Contract Laboratory Program (CLP) contracts.
Modify contracts to require use of Staged Electronic Data Deliverable (SEDD) format and electronic data review software.	OSRTI, TIFSD	Completed/ Ongoing	<i>Progress</i> – Some contracts have been modified in 2005 and 2006. <i>Future</i> - Ongoing period of implementation through 2007. <i>Endpoint</i> – Include in all contracts by the end of 2007.

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<p>3.4 d. Issue Superfund guidance on types of spatially-oriented information.</p> <p><i>[Related to 120-Day Study Recommendation #99.]</i></p> <p>Superfund Geospatial Data Procedure</p>	OSRTI, RMD	Ongoing (2)	<p><i>Purpose</i> – To establish a standard set of geospatial data types to identify the location of Superfund sites and to describe sampling data.</p> <p><i>Progress</i> - Draft memo on Superfund Geospatial Data; procedures have been sent to Regional Workgroup.</p> <p><i>Future</i> - Finalize procedures delayed by funding.</p> <p><i>Endpoint</i> – When procedures are finalized.</p>
<p>3.4 e. Issue screening matrix of electronic decision support tools for use in cleanups.</p> <p><i>[Related to 120-Day Study Recommendation #99.]</i></p> <p>Screening matrix</p>	OSRTI, TIFSD	Completed/ Ongoing	<p><i>Purpose</i> – To issue screening matrix to be used as support tools for site cleanups.</p> <p><i>Progress</i> - Matrix & documents on web-site. (see www.frtr.gov/decisionsupport)</p> <p><i>Future</i> - Add four more tools to matrix in 2007.</p> <p><i>Endpoint</i> – Need to determine magnitude of matrix use.</p>

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<p>3.5 Sampling and Analysis Support</p> <p><i>[Specific to 120-day Study Recommendation #49.]</i></p> <p>3.5 a. Scale data collection, analysis and assessment strategies to manage decision uncertainty in order to improve project effectiveness.</p> <p>3.5 b. Optimize the use of the Field and Analytical Services Teaming Advisory Committee (FASTAC).</p>	<p>OSRTI, TIFSD</p> <p>OSRTI, TIFSD</p>	<p>Completed</p> <p>Completed</p>	<p><i>Purpose</i> – To finalize memo encouraging use of Triad across the Superfund program.</p> <p><i>Progress</i> – Final memo completed in September 2006. <i>Future</i> – This activity will be combined with measure #2.3 (Triad approach) and will not be tracked as a separate activity in future updates.</p> <p><i>Progress</i> – Memo completed in Summer 2005. <i>Future</i> – No further work is planned. <i>Endpoint</i> – Work completed.</p>
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3.6 Special Accounts Prepayment of Oversight Costs <i>[120-Day Study Recommendation #15, which is completed.]</i>	OSRE	Completed/ Ongoing	<i>Purpose</i> – To request that PRPs prepay first installment of oversight costs as a means of saving Trust Fund dollars. <i>Present</i> - Final Guidance signed on December 22, 2006. <i>Future</i> - Implement Guidance as a new activity. <i>Endpoint</i> – Continuous guidance implementation.
4.1 Remedy Update Reform Memo to Regions re-emphasizing the need to update remedies <i>[Related to 120-Day Study Recommendations #27 and #41.]</i>	OSRTI, ARD	Completed/ Ongoing	<i>Purpose</i> – To bring past decisions in line with current remediation science and technology while maintaining protectiveness of human health and the environment. <i>Present</i> – Memo completed in August 2005. Annual Report for FY04 and FY05 completed in March 2007. (see Attachment 2) <i>Future</i> – Continue annual report every 2 years. <i>Endpoint</i> – HQ will track remedy updates annually and develop a summary report every 2 years.
4.2 National Remedy Review Board (NRRB) Criteria - Memo to Regions expanding the scope of the NRRB. <i>[120-Day Study Recommendations #37 and #38, which are completed.]</i>	OSRTI, ARD	Completed/ Ongoing	<i>Purpose</i> – To lower the cost threshold for NRRB review and capture more site-specific decisions. <i>Present</i> - Memo completed March 21, 2005. NRRB reviewed 6 sites in 2006. <i>Future</i> - Additional reviews for sites that meet the new remedy cost threshold of \$25M as of July 1, 2005. <i>Endpoint</i> – NRRB reviews will occur as needed.
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4.3 Groundwater Remedy Performance - Memo to Regions encouraging remedy optimization. <i>[120-Day Study Recommendation #40, which is completed.]</i>	OSRTI, ARD	Completed/ Ongoing	<i>Purpose</i> – To perform systematic review of operating ground water remedies and improve performance and enhance remedy cost-effectiveness. <i>Present</i> - Memo completed in August 2004. Annual Report for FY05 completed in December 2006. To date, 39 evaluations completed at Fund-lead sites. <i>Future</i> – Approximately five evaluations planned per year to optimize more pump and treat (P&T) systems. <i>Endpoint</i> – Optimization Summary Reports will be completed annually.
4.4 Contaminated Sediments Technical Advisory Group (CSTAG) - Memo to Regions setting new size criteria for CSTAG review of the sediment remedy. <i>[Related to 120-Day Study Recommendation #42.]</i>	OSRTI	Completed/ Ongoing	<i>Purpose</i> – Announce new site criteria to have sediment remedies reviewed by CSTAG. <i>Present</i> - Memo completed in Summer 2005. In 2006, CSTAG provided updated recommendations at 3 sites and new recommendations at 1 site. <i>Future</i> - Review additional sediment sites as needed <i>Endpoint</i> – Results will be reported annually.
5.1 Improved Technology Cost Estimation and Management <i>[120-Day Study Recommendation #69 specific to #5.1 c.]</i>	OSRTI, TIFSD & ARD		<i>Purpose</i> – To target collection and analysis of priority historical cost data to enable comparison between projects.
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5.1a. Issue new Remedial Action (RA) Report Guidance	OSRTI, ARD	Ongoing	<i>Future - Final Guidance has been drafted.</i> <i>Endpoint – Implement guidance to regions.</i>
5.1b. Begin assessing historical cost	OSRTI, TIFSD	Ongoing	<i>Future – Ongoing activity for 2007.</i> <i>Endpoint – Using data to compare costs.</i>
5.1c. Cost Estimation Memo	OSRTI, ARD	Completed	<i>Progress - Memo completed in June 2004.</i> <i>Future – No further products planned.</i>
5.2 Compile and Distribute Cost and Performance Information - Annual posting on web <i>[Related to 120-Day Study Recommendation #69.]</i>	OSRTI, TIFSD	Completed/ Ongoing	<i>Purpose – To perform interagency effort to collect cost and performance case studies on the application of remedial technologies.</i> <i>Progress – 38 new case studies were added to the Remediation Roundtable Inventory in 2006.</i> <i>Future – More case studies will be added after the 2007 May/June Roundtable meeting.</i> <i>Endpoint – Add more case studies indefinitely.</i>
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5.3 Mining Site Treatment - Pilot Gilt Edge Mine (Reg. 8) in-situ mining site treatment. <i>[Related to 120-Day Study Recommendation #42.]</i>	OSRTI, ORD	Completed	<i>Purpose</i> – To conduct field studies and create draft bulletin to evaluate in-situ mining treatment. <i>Progress</i> - Completed Engineering Issue paper in October 2006 to evaluate in-situ mining treatment (see http://epa.gov/nrmrl/pubs/625r06014/625r06014.htm) <i>Future</i> – No further work planned in 2007.
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